

SNIPER 2R SCANNING LIGHT (3IN1)

SL-3130



User Manual

Thank you for choosing our sniper 2R scanning light (3in1). For the sake of your safety, Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

Catalogue

Chapter	Page
Safe Usage Of The Product -----	3
Install The Equipment -----	4
Fitting The Lamp-----	4
Power Code Connection -----	4
DMX Connection -----	5
DMX Terminator -----	5
Function Set -----	6
Lamps starting address code calculation methods-----	6
Operation Menu -----	6
Maintenance -----	8
Keeping The Product Clean -----	8
Trouble Shooting-----	9
Equipment and Appendix-----	9
Channel List-----	9
Technical Parameters-----	16

☆Important notice:

- In this instruction for use contains about the installment and the use aspect important information of the 2R sniper. When installing and using, you need to look this usage instruction strictly.
- Before open the 2R sniper and if you want to do the repair work, please make sure the power source is at the separation condition.
- Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer or dealer.

Attention: Unceasingly carries on the product improvement about our company the policy, in this instruction booklet carries the data will have the possibility to be able to change in the future, when no longer separate notice change matters concerned. Our company retains when the product improvement changes the related specification the authority. This instruction booklet publisher cannot be responsible regarding this instruction booklet in information accuracy, also cannot the related consequence which causes regarding these information be responsible.

SAFE USAGE OF THE PRODUCT

When unpacking and before disposing of the carton, check there is no transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The product is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The product is not designed or intended to be mounted directly on to inflammable surfaces

The product is only intended for installation, operation and maintenance by professional person.

The product must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 12m.

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the light clean. Do not touch the light glass with bare hands.

The product should always be installed with a secondary safety fixing. On the projector base bracket, there is a hole for the safety cord provided. It should be attached as shown in “installing the projector” section.

The lamp used in this projector is a discharge lamp. After switching off don't attempt to restart the projector until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the projector. But occasional breaks will prolong the life of the lamp and projector.

Never run the projector without a lamp.

The light shall be changed if it has become damaged or thermally deformed or reached its life limit.

Shields and lens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.

Exterior surface temperatures of the luminaire after 5 minutes operation is 70% when steady state is achieved 140 °

There is no user serviceable parts inside the projector, do not open the housing and never operate the product with the covers removed.

If you have any questions, don't hesitate to consult your dealer or manufacturer.

★Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !

Install The Equipment:

Use 1pcs clamp and 1safety cord(need to purchase).Use clamp fix with light hook which in the packing box with light, then use screw install to the bottom of lamp. Hang the fixture on the structure and fasten the screws attached to each clamp. Make sure the light is installed reliable, and confirm the light which you fixed is strong enough for hanging the light. Base on safety reason, please according to the above picture using safety wire cross the light to make it strong enough again.

Warning!

1. Hook and clamp only use for hanging the light. Do not use clamp as a tool to move fixtures.
2. Base on safety reason, please use the safety cord which can afford the weight ten times of lamp through Insurance hole for auxiliary hanging.

Fitting The Lamp:

.First removed the iron in the back of the light before fitting/replacing the lamp.
.Good quality bulbs are recommended
.Not charged to install or remove the light bulb.
.Do not touch the light glasss with bare hands
.Fit new lamp and close the back cover by fastening 4 fast-fit screws when finished lamp installation.
.Lamp work will reach a very high temperature, Vapor discharge lamp can not continue to supply this physical characteristics, therefore, the power completely cool for 10 minutes before on the operation. Failure to do so will lead to a high-pressure discharge and short circuit burned out the computer's control panel components.

Notes: Unplug the light from power before lamp installation or replacement and wait for it to cool.

Power Code Connection:

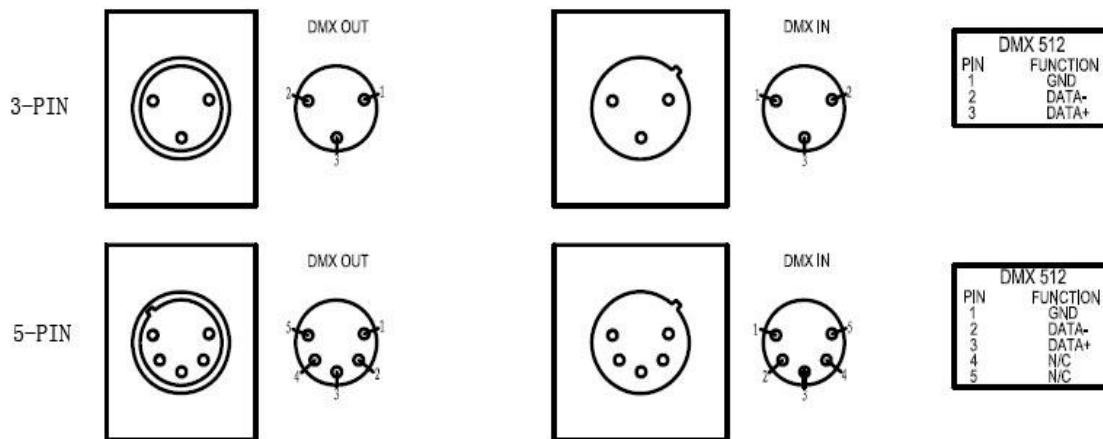
Connect the power cord as follows:

L (live) =brown
E (earth) =yellow/green
N (neutral) =blue

Use the plug provided to connect the mains power to the projector paying attention to the voltage and frequency marked on the panel of the projector. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

★It is essential that each projector is correctly earthed and the electrical installation conforms to all relevant standards.

DMX Connection:



Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to and from the projector is via cannon 3 pin (which are included with the projector) XLR plugs and sockets. The XLR's are connected as shown in the figure above.

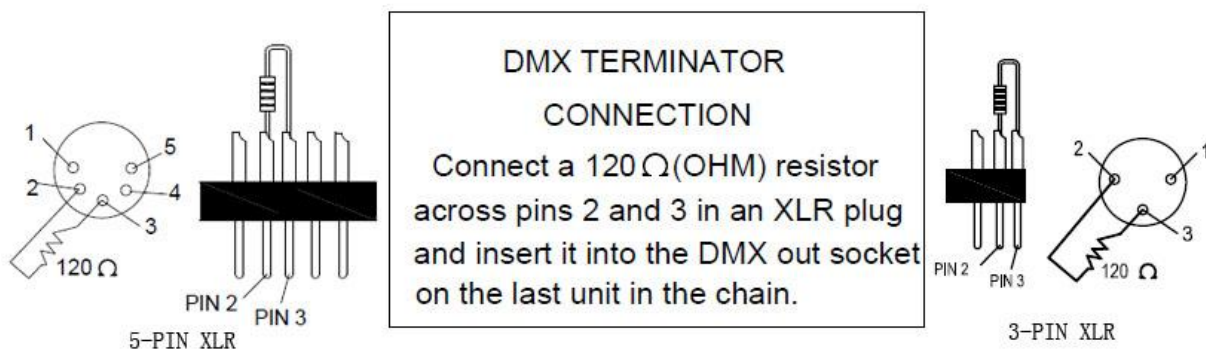
Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The XLED 590 accepts digital control signals in protocol DMX512 (1990).

Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.

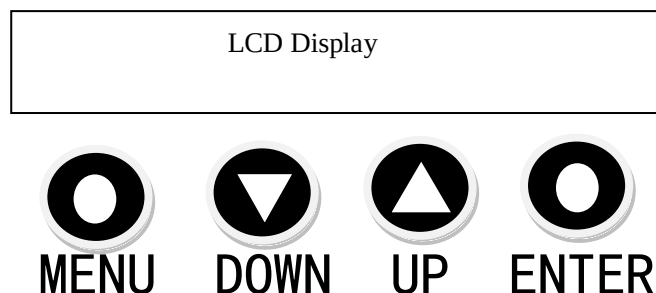
DMX Terminator:

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



Function Set:



Use button switch and LCD display, can set the address code and function code easily.

Check or modify lighting function settings, Press the MENU or ENTER button. LCD display panel will display main menus. Function operation menu all have corresponding submenu . Each menu all represent the specific functions of lamps, specific see below "operation menu" section.

Set or browse function setting of lamp, Press UP or DOWN key.

Press ENTER key to save your changes or to ENTER submenu, Press UP or DOWN can change value(Plus or reduce number).

Lamps starting address code calculation methods:

The current code is equal to the starting address of lamps (lamps on a starting address code) + (number of channels lamps) Description:

- 1: The first fixture in the starting address of the code is A001.
- 2: The number of basic channel controller, should be greater than, or the total number of channels used lamps equal.
- 3: Note: When using any of the controllers, each with its own lighting should be the starting address of the code, if the first fixture in the starting address of the code is set to A001, lighting channel number 16CH; then the first two fixture in the starting address of the code is set to A017; the third fixture in the starting address of the code is set to A033; and so on, (this is set up according to the different needs of the console to be)

NOTE: Turn the lamp, press MENU key to display the dmx address;

Press ENTER to display the DMX address;

Press the UP or DOWN keys to set the value you can get;

And then press ENTER to confirm, will show the latest setting next time you save power.

Press the MENU button to return to the previous menu.

Operation Menu:

The control panel menu displays for a variety of types of computer special light design, equipped with a variety of control functions, simple control. For some models fixtures no action, the corresponding menu option is set invalid.

According to the following chart shows the menu will understand.

	DMX Address	A001	DMX address set
		A512	
	Channel Mode	17Ch	Channel choose
		21Ch	
	Show Mode	Sound	Sound, Auto-mode
		Auto	
	Slave Mode	Master	Master-Slave choose
		Slave	
	Black Out	No	Standby choose
		Yes	
	Sound State	On	Sound control ON/OFF
		Off	
	Sound Sense	0--100	Sound control sensitivity (0 closed, 100 of the most sensitive)
MENU	Pan Inverse	No	Pan reverse
		Yes	
	Tilt Inverse	No	Tilt reverse
		Yes	
	Back Light	On	LCD ON/OFF
		Off	
	Lamp On/Off	On	Lamp ON/OFF
		Off	

Auto Test		Test mode
	---	When no connect Temperature Sensor
Temp.		
	-20--200° C	Normal display temperature inside the machine
Fixture Time	0--999	Machine running time
Firmware Version	V1.01	Software version number
	No	
Factory Defaults		Factory reset
	Yes	
	No	
System Reset		Motor reset
	Yes	

Maintenance:

To prolong the life of the projector, some maintenance work has to be done to ensure the optical system in good condition. If the projector does not function, check the fuses on the power socket of the projector, they should only be replaced by fuses of the same specification. Should these be damaged, call a qualified technician before replacement. The projector has thermal protection device that will switch off the projector in case of overheating. Should either of these operate, check that the fans are not blocked, and if they are dirty, clean them before switching on the projector again. Check that the fans are operational, if not, call a qualified technician.

☆Any maintenance work should only be carried out by qualified technicians.

Keeping The Product Clean:

To ensure the reliability of the projector, it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output.

Do NOT use any type of solvent on dichroic colour filters.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean the external optics at least once every 15 days and clean the internal optics at least once every 60 / 90 days.

☆ **Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.**

Trouble Shooting:

Problem	Answer
The scanning light doesn't switch on.	Check the fuse the power socket Replace the lamp
Although shines, but the light doesn't accept the instruction of the controller.	Check the digital start address and also check the connection situation of the communication control line
The light only can work intermittently.	Inspect the power supply and voltage is whether normal. Make sure the fan is working well or fans and their filters not blocked
Defective projection	Make sure the lamp is within its life limit Remove dust or grease from the lenses.
The beam appears dim	Check the optics is clean or the lens in good condition(not cracked) Replace with a new lamp of the specified type and rating.

☆ **Other maintain work should be by the specialist which has the experience to carry on.**

Equipment and Appendix:

☆ Sniper 2R scanning Light	1pcs
☆ Power Cable	1pcs
☆ XLR connector	1unit
☆ The Product of Instruction	1pcs

Channel List:

21CH MODE

Channel	Value	Function description	Value
CH1	0---255	Pan Movement	PAN
CH2	0---255	Pan Movement Fine[16 bit]	PAN FINE[16 BIT]
CH3	0---255	Tilt Movement	TILT
CH4	0---255	Tilt Movement Fine[16 bit]	TILT FINE[16 BIT]
CH5	0---7	No Function	PAN SHAKING
	8---255	Pan Shaking Movement Slow To Fast	
CH6	0---7	No Function	TILT SHAKING
	8---255	Tilt Shaking Movement Slow To Fast	

CH7	0---2	Open	COLOR
	3---4	Open + Color1	
	5---6	Color1	
	7---9	Color1 + Color2	
	10---11	Color2	
	12---13	Color2 + Color3	
	14---15	Color3	
	16---18	Color3 + Color4	
	19---20	Color4	
	21---22	Color4 + Color5	
	23---24	Color5	
	25---27	Color5 + Color6	
	28---29	Color6	
	30---31	Color6 + Color7	
	32---33	Color7	
	34---36	Color7 + Color8	
	37---38	Color8	
	39---40	Color8 + Color9	
	41---43	Color9	
	44---45	Color9 + Color10	
	46---47	Color10	
	48---49	Color10 + Color11	
	50---52	Color11	
	53---54	Color11 + Color12	
	55---56	Color12	
	57---58	Color12 + Color13	
	59---61	Color13	
	62---63	Color13 + Color14	
	64---65	Color14	
	66---67	Color14 + Open	
	68---128	Color Wheel Index - Color1 To Color15	
	129---190	Clockwise Color Rotation From Fast To Slow	
	191---193	Stop	
	194---255	CounterClockwise Color Rotation From Slow To Fast	
CH8	0---7	Open	GOBO
	8---14	Gobo1	
	15---22	Gobo2	
	23---29	Gobo3	
	30---37	Gobo4	
	38---44	Gobo5	
	45---52	Gobo6	
	53---59	Gobo7	
	60---67	Gobo8	

	68---74	Gobo9	
	75---82	Gobo10	
	83---89	Gobo11	
	90---97	Gobo12	
	98---104	Gobo13	
	105---112	Gobo14	
	113---119	Gobo15	
	120---126	Gobo16	
	127---133	Gobo17	
	134---194	Clockwise Gobo Rotation From Fast To Slow	
	195---255	CounterClockwise Gobo Rotation From Slow To Fast	
CH9	0---8	Off	PATTERN MACROS
	9---16	Pattern Macro 1	
	17---25	Pattern Macro 2	
	26---33	Pattern Macro 3	
	34---42	Pattern Macro 4	
	43---50	Pattern Macro 5	
	51---59	Pattern Macro 6	
	60---67	Pattern Macro 7	
	68---76	Pattern Macro 8	
	77---84	Pattern Macro 9	
	85---93	Pattern Macro 10	
	94---101	Pattern Macro 11	
	102---110	Pattern Macro 12	
	111---118	Pattern Macro 13	
	119---127	Pattern Macro 14	
	128---135	Pattern Macro 15	
	136---144	Pattern Macro 16	
	145---152	Pattern Macro 17	
	153---161	Pattern Macro 18	
	162---169	Pattern Macro 19	
	170---178	Pattern Macro 20	
	179---186	Pattern Macro 21	
	187---195	Pattern Macro 22	
	196---203	Pattern Macro 23	
	204---212	Pattern Macro 24	
	213---220	Pattern Macro 25	
	221---229	Pattern Macro 26	
	230---237	Pattern Macro 27	
	238---246	Pattern Macro 28	
	247---255	Pattern Macro 29	
CH10	0---9	Stop	PATTERN ROTATION[Clockwi
	10---120	Clockwise Pattern Rotation From Fast To Slow	

	121---134	Stop	se/CounterClockwise]
	135---245	CounterClockwise Pattern Rotation From Slow To Fast	
	246---255	Stop	
CH11	0---9	Stop	PATTERN ROTATION[Horizontal /Vertical]
	10---120	Horizontal Pattern Rotation From Fast To Slow	
	121---134	Stop	
	135---245	Vertical Pattern Rotation From Slow To Fast	
	246---255	Stop	
CH12	0---127	Pattern Zoom Manual	PATTERN ZOOM
	128---255	Pattern Zoom From Slow To Fast	
CH13	0---9	Stop	HORIZONTAL PATTERN MOVEMENT
	10---120	Horizontal Pattern Movement Left	
	121---144	Stop	
	145---255	Horizontal Pattern Movement right	
CH14	0---9	Stop	VERTICAL PATTERN MOVEMENT
	10---120	Vertical Pattern Movement Up	
	121---144	Stop	
	145---255	Vertical Pattern Movement Down	
CH15	0---127	0---360°	ECCENTRIC
	128---191	Clockwise Rotation From Fast To Slow	
	192---255	CounterClockwise Rotation From Slow To Fast	
CH16	0---7	Stop	ECCENTRIC SHAKING
	8---255	Shaking From Slow To Fast	
CH17	0---255	Prism Movement	PRISM
CH18	0---127	RPrism Indexing	RPRISM
	128---191	Clockwise Rotation From Fast To Slow	
	192---255	CounterClockwise Rotation From Slow To Fast	
CH19	0---255	Dimmer Intensity 0 To 100%	DIMMER INTENSITY
CH20	0---7	No Function	SHUTTER
	8---255	Shutter From Slow To Fast	
CH21	0---39	No Function	FUNCTION[Active After 5S]
	40---59	Lamp On	
	60---79	Lamp Off	
	80---89	All Motors Reset	
	90---99	Pan/Tilt Motors Reset	
	100---109	Color Motor Reset	
	110---119	Gobo Motor Reset	
	120---129	Shutter & Dimmer Motors Reset	
	130---139	Other Motors Reset	
	140---149	Enable Blackout While Pan/Tilt Movement	
	150---159	Disable Blackout While Pan/Tilt Movement	

	160---169	Enable Blackout While Color Change	
	170---179	Disable Blackout While Color Change	
	180---189	Enable Blackout While Gobo Change	
	190---199	Disable Blackout While Gobo Change	
	200---219	System Reset	
	220---255	No Function	

17CH Mode

Channel	Value	Function description	Function
CH1	0---127	Pan Movement	PAN
	128---255	Pan Shaking Movement Slow To Fast	
CH2	0---127	Tilt Movement	TILT
	128---255	Tilt Shaking Movement Slow To Fast	
CH3	0---2	Open	COLOR
	3---4	Open + Color1	
	5---6	Color1	
	7---9	Color1 + Color2	
	10---11	Color2	
	12---13	Color2 + Color3	
	14---15	Color3	
	16---18	Color3 + Color4	
	19---20	Color4	
	21---22	Color4 + Color5	
	23---24	Color5	
	25---27	Color5 + Color6	
	28---29	Color6	
	30---31	Color6 + Color7	
	32---33	Color7	
	34---36	Color7 + Color8	
	37---38	Color8	
	39---40	Color8 + Color9	
	41---43	Color9	
	44---45	Color9 + Color10	
	46---47	Color10	
	48---49	Color10 + Color11	
	50---52	Color11	
	53---54	Color11 + Color12	
	55---56	Color12	
	57---58	Color12 + Color13	
	59---61	Color13	
	62---63	Color13 + Color14	
	64---65	Color14	
	66---67	Color14 + Open	

	68---128	Color Wheel Index - Color1 To Color15	
	129---190	Clockwise Color Rotation From Fast To Slow	
	191---193	Stop	
	194---255	CounterClockwise Color Rotation From Slow To Fast	
CH4	0---7	Open	GOBO
	8---14	Gobo1	
	15---22	Gobo2	
	23---29	Gobo3	
	30---37	Gobo4	
	38---44	Gobo5	
	45---52	Gobo6	
	53---59	Gobo7	
	60---67	Gobo8	
	68---74	Gobo9	
	75---82	Gobo10	
	83---89	Gobo11	
	90---97	Gobo12	
	98---104	Gobo13	
	105---112	Gobo14	
	113---119	Gobo15	
	120---126	Gobo16	
	127---133	Gobo17	
	134---194	Clockwise Gobo Rotation From Fast To Slow	
	195---255	CounterClockwise Gobo Rotation From Slow To Fast	
CH5	0---8	Off	PATTERN MACROS(扫描图形)
	9---16	Pattern Macro 1	
	17---25	Pattern Macro 2	
	26---33	Pattern Macro 3	
	34---42	Pattern Macro 4	
	43---50	Pattern Macro 5	
	51---59	Pattern Macro 6	
	60---67	Pattern Macro 7	
	68---76	Pattern Macro 8	
	77---84	Pattern Macro 9	
	85---93	Pattern Macro 10	
	94---101	Pattern Macro 11	
	102---110	Pattern Macro 12	
	111---118	Pattern Macro 13	
	119---127	Pattern Macro 14	
	128---135	Pattern Macro 15	
	136---144	Pattern Macro 16	
	145---152	Pattern Macro 17	
	153---161	Pattern Macro 18	

	162---169	Pattern Macro 19	
	170---178	Pattern Macro 20	
	179---186	Pattern Macro 21	
	187---195	Pattern Macro 22	
	196---203	Pattern Macro 23	
	204---212	Pattern Macro 24	
	213---220	Pattern Macro 25	
	221---229	Pattern Macro 26	
	230---237	Pattern Macro 27	
	238---246	Pattern Macro 28	
	247---255	Pattern Macro 29	
CH6	0---9	Stop	PATTERN ROTATION[Clockwise/CounterClockwise]
	10---120	Clockwise Pattern Rotation From Fast To Slow	
	121---134	Stop	
	135---245	CounterClockwise Pattern Rotation From Slow To Fast	
	246---255	Stop	
CH7	0---9	Stop	PATTERN ROTATION[Horizontal /Vertical]
	10---120	Horizontal Pattern Rotation From Fast To Slow	
	121---134	Stop	
	135---245	Vertical Pattern Rotation From Slow To Fast	
	246---255	Stop	
CH8	0---127	Pattern Zoom Manual	PATTERN ZOOM
	128---255	Pattern Zoom From Slow To Fast	
CH9	0---9	Stop	HORIZONTAL PATTERN MOVEMENT
	10---120	Horizontal Pattern Movement Left	
	121---144	Stop	
	145---255	Horizontal Pattern Movement right	
CH10	0---9	Stop	VERTICAL PATTERN MOVEMENT
	10---120	Vertical Pattern Movement Up	
	121---144	Stop	
	145---255	Vertical Pattern Movement Down	
CH11	0---127	0---360°	ECCENTRI
	128---191	Clockwise Rotation From Fast To Slow	
	192---255	CounterClockwise Rotation From Slow To Fast	
CH12	0---7	Stop	ECCENTRI SHAKING
	8---255	Shaking From Slow To Fast	
CH13	0---255	Prism Movement	PRISM
CH14	0---127	RPrism Indexing	RPRISM
	128---191	Clockwise Rotation From Fast To Slow	
	192---255	CounterClockwise Rotation From Slow To Fast	
CH15	0---255	Dimmer Intensity 0 To 100%	DIMMER INTENSITY

CH16	0---7	No Function	SHUTTER
	8---255	Shutter From Slow To Fast	
CH17	0---39	No Function	FUNCTION[Active After 5S]
	40---59	Lamp On	
	60---79	Lamp Off	
	80---89	All Motors Reset	
	90---99	Pan/Tilt Motors Reset	
	100---109	Color Motor Reset	
	110---119	Gobo Motor Reset	
	120---129	Shutter & Dimmer Motors Reset	
	130---139	Other Motors Reset	
	140---149	Enable Blackout While Pan/Tilt Movement	
	150---159	Disable Blackout While Pan/Tilt Movement	
	160---169	Enable Blackout While Color Change	
	170---179	Disable Blackout While Color Change	
	180---189	Enable Blackout While Gobo Change	
	190---199	Disable Blackout While Gobo Change	
	200---219	System Reset	
	220---255	No Function	

Technical Parameters:

Voltage : AC100~240V/50-60Hz

Power consumption:220W@(220V)

Lamp:YODN 132W Platinum 2R Lamp

Lamp life : 6,000 hours average life

Color: 14 color + blank color wheel

Gobo: 17 fixed gobo + blank gobo

Prism : rotation 3-face prism, rotation function.

Dimmer : 0-100% electronic dimmer, strobe and electronic support can speed strobe effect, support strobe macro function.

Beam angle : The lens group optical system, manual focus, the beam angle 3 °

Channel : 17/21CHS

Control mode : Standard DMX512, Automatic and Master/ slave mode

Mirror system:X/Y/Z High-speed shock mirror

Control panel: LCD display panel

Protection grade:IP20

Operating ambient temperature: -20℃-40℃

Net weight:7.5KG

Gross weight: 8.5 kg

Dimensions:358*268*197 mm

Packing size :410* 310*255 mm